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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/616,160	07/09/2003	Tomoaki Shoji	TOYA115.009AUS	8589
	590 08/26/2004		EXAMINER	
KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR			YANG, NELSON C	
			ART UNIT	PAPER NUMBER
IRVINE, CA	92614		1641	
			DATE MAIL ED: 08/26/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Comme	10/616,160	SHOJI, TOMOAKI
Office Action Summary	Examiner	Art Unit
	Nelson Yang	1641
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by standard properties of the maximum statutory per - Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	JN. R 1.136(a). In no event, however, may a i. I reply within the statutory minimum of thi riod will apply and will expire SIX (6) MO	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on 20	6 March 2004.	
2a)☐ This action is FINAL . 2b)⊠ T	This action is non-final.	
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayl</i> e, 1935 C.E	D. 11, 453 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-4 is/are pending in the applicatio 4a) Of the above claim(s) is/are witho 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers	are election requirement.	
9)☐ The specification is objected to by the Exami	inos	
10)☐ The drawing(s) filed on is/are: a)☐ a	ccented or b) abjected to	by the Francisco
Applicant may not request that any objection to the	ne drawing(s) he held in abeyon	by the Examiner.
Replacement drawing sheet(s) including the corre	ection is required if the drawing/	(s) is objected to Soc 37 CED 4 404(4)
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152
Priority under 35 U.S.C. § 119		
12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority document as: 2. ☐ Certified copies of the priority document as: 3. ☐ Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Aplication in the contract of the contract	oplication No received in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 10/27/03 3/26/04	Paper No(s)	Immary (PTO-413) /Mail Date ormal Patent Application (PTO-152) -

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- I. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 1. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 2. Claim 1 recites the limitation "the substrate" in the second line. There is insufficient antecedent basis for this limitation in the claim.
- 3. Claim 1 recites the step of "supporting the micropipette at the position where the droplet formed at the pouring port can contact with the substrate". It is unclear whether applicant intends the micropipette to be supported at the pouring port where the droplet is formed, or if applicant intends the micropipette to be supported in a position where a droplet formed can contact the substrate. Further clarification would be greatly appreciated.
- 4. The remaining claims are indefinite due to their dependence on an indefinite claim.

Claim Rejections - 35 USC § 102

II. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirota et al [US 6,365,378].

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With respect to claim 1, Hirota et al teach a method of producing a microarray comprising using a holder plate to position and fix micropipettes, such that a plurality of micropipettes are automatically aligned and positioned with a predetermined array arrangement (column 7, lines 33-41). The micropipettes each have a sample-pouring port disposed on the upper side, and a sample discharge port on the lower side (column 8, lines 8-15). Samples are discharged at predetermined speed from the sample discharge port onto a base plate (substrate) (column 6, lines 35-40).

- 6. With respect to claim 2, solutions discharged from the micropipettes are aligned and fixed as minute spots on a base plate (column 6, lines 35-40).
- 7. With respect to claims 3-4, the droplets formed have diameter of 30 to 500 μ m (column 6, lines 56-67). Since 1 cm³ = 1 mL, the droplets are between .014 μ L and 65 μ L.

Conclusion

- III. No claims are allowed.
- 8. The following references are also cited as art of interest: Brown et al [US 5,807,522] teach a method for fabricating microarrays of biological samples using an automated capillary dispenser.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson Yang whose telephone number is (571) 272-0826. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V Le can be reached on (571)272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Nelson Yang Patent Examiner Art Unit 1641

CHRISTOPHER L. CHIN PRIMARY EXAMINER GROUP 1800/61/1

8/21/04

Christish L. Chi